Ministry of
Energy and
Resources

Ministry of
Energy and Resources

2012 Institutional Control Report

(The Reclaimed Industrial Sites Act)

For the Period April 1, 2007 – March 31, 2012

THE SASKATCHEWAN
ADVANTAGE

Management's Responsibility for Reports

In accordance with *The Reclaimed Industrial Sites Act* (Act) and *The Reclaimed Industrial Sites Regulations* (Regulations) the requirement to establish and enforce the Institutional Control Program is the responsibility of the management of the Ministry of Energy and Resources.

Under the Act, a report to be known as the Institutional Control Report is to be prepared every five years respecting the status of all closed sites accepted into the Institutional Control Program. The Program came into effect in 2007, and the report for the period April 1, 2007 – March 31, 2012 represents the first such report prepared in accordance with the requirements of the Act.

Section 15(3) of the Act requires the report to be tabled on or before April 1, 2012.

Kent Campbell
Deputy Minister
Energy and Resources
Regina, Saskatchewan
March 30, 2012

Introduction

The Reclaimed Industrial Sites Act (Act) and *The Reclaimed Industrial Sites Regulations* (Regulations) were enacted in 2007. The Act and Regulations establish a uniform framework for returning Crown land held under surface lease back to the Province when mining activities have been completed. This includes full decommissioning and reclamation of the site to acceptable standards. It also establishes clear custodial and funding responsibility for the long-term monitoring and management of the rehabilitated site.

Saskatchewan was the first province in Canada to have comprehensive legislation for these purposes.

The Act and Regulations enabled establishment and enforcement of the Institutional Control Program (Program). The primary components of the Program are the Institutional Control Registry and the Institutional Control Funds.

The Program is managed and administered by the Ministry of Energy and Resources.

Program Purpose

In 2005, Saskatchewan initiated the development of an institutional control framework for the long-term management of decommissioned mine and mill sites on provincial Crown land. There were a number of related objectives:

- ensure the health, safety and well-being of future generations;
- provide greater certainty and closure for the mining industry; and,
- recognize past stated obligations by the province, as well as national and international obligations for storage of radioactive materials.

The primary components of the Program are the Registry and the two Institutional Control Funds (Institutional Control Monitoring and Maintenance Fund; Institutional Control Unforeseen Events Fund). The Registry's work will include the maintenance of records of the location of a closed site and its former operator, site description, historical records of activities, site maintenance, monitoring and inspection, and future allowable land use for the site.

To address the province's risk of accepting sites into custodial responsibility, the costs of future monitoring and maintenance, and the potential cost of unforeseen future events, the holder responsible for an individual site establishes dedicated site-specific funding. The Monitoring and Maintenance Fund will pay for long-term monitoring and maintenance. The Unforeseen Events Fund will pay for unforeseen future events requiring additional site activities. The Funds are managed by the Ministry of Energy and Resources and reports are published annually.

Program Activities

With the establishment of the Program in 2007, the Ministry of Energy and Resources consulted with stakeholders to create a discussion paper: *Institutional Control Program: Post Closure Management of Decommissioned Mine/Mill Properties Located on Crown Land in Saskatchewan.* The document outlines how the Program would operate and the requirements for a company to transfer a site to provincial custody and enter a site into the Registry. The document has been revised and updated as required when new information or processes are implemented. The current version of the document is available from the Ministry of Energy and Resources website.

The discussion paper noted above, the Institutional Control Registry Report, the Act and Regulations and the annual reports on the Institutional Control Funds are available in hardcopy from the Ministry of Energy and Resources or through the Ministry website at www.er.gov.sk.ca.

The Registry maintains a formal and comprehensive record of all closed sites. It also maintains a record of funds deposited on acceptance of a site into the Registry, monies expended for monitoring and maintenance activities and the balance held on account for that site for future site activities. Registry records include information on the location, former operator, a site description, historical records of activities, site maintenance, monitoring and inspection documentation, as well as future allowable land use for the site.

The Regulations were amended in 2010 to clarify and further define requirements for financial assurances required from operators to have a site accepted into the Program.

As of March 31, 2012, a total of six sites have been accepted into the Program: one decommissioned gold mine, and five decommissioned uranium mines. To date, no monitoring and maintenance activities or remedial site activities resulting from unforeseen events have been required.

The summary statement of information for the six sites is presented in the Appendix and is published by the Ministry of Energy and Resources as the Institutional Control Registry Report.

Future Activities

In the next five years, it is expected the Program will receive applications for two more sites to be accepted into the Registry.

Activities on those sites already in the Program will include inspection of the six sites. This is scheduled for 2014. The results of the inspections will be held on file with the Registry and any remedial work required as a result of the inspections will be performed.

The Act will be reviewed in 2012 as required under Section 16 of the Act.

INSTITUTIONAL CONTROL REGISTRY REPORT

March 31, 2012

Institutional Control Registry – Report

This report is published by the Ministry of Energy and Resources (MER) as the manager and administrator of the Institutional Control Program, in accordance with *The Reclaimed Industrial Sites Act* and *The Reclaimed Industrial Sites Regulations*. It is considered current and correct to March 31, 2012.

IC REGISTRY	**ICR #**	**ICR - 01**
	Date of Acceptance	May 11, 2009
SITE DATA	Name	Contact Lake Mine
	Site Holder/Operator	Cameco Corporation
	Original Operator	Cameco Corporation
SITE LOCATION	Region	La Ronge
	NTS	73-P-07
	UTM-North	6141199
	UTM-East	507983
	UTM Zone	13
	NAD	1927
SITE DESCRIPTION	Commodity/Mineral	Gold
	Operational History	December 1994 to June 1998
	Operation Description	Mine/mill development including portal, ventilation shafts and tailings facility.
	Release Description	Mill and tailings facility (Turtle Lake) decommissioned, site reclaimed, revegetation, portal closed.
SITE PERMITS	Release from Decommissioning and Reclamation	IR-15
	Operating Permit at time of Release	N/A
	Mineral Disposition	ML 5506
	Mineral Release/Crown Mineral Reserve	CR-853
	Surface Lease Agreement	Surrendered
	Surface Lease Agreement at time of Release	Contact Lake Surface Lease Agreement
	CNSC Exemption (if applicable)	N/A
	CNSC License at time of exemption (if applicable)	N/A

SITE CONTROLS	Land Use Restrictions	MUP #603089 - no development without application/approval - casual access permitted
	Monitoring/Inspection Results	Results due in 2014
	Date of last monitoring	2008
	Date of last maintenance	N/A
SITE RECORDS	Site holder application	April 11, 2008
	Monitoring and Maintenance Plan	2014 and 2019 inspections include visual and water samples (stations 1.8.1 and 1.9). After 2024, inspections move to 10 years, after 2044 move to 25 years. Concrete cap replacement scheduled for 2079.
	Financial Assurance Plan/Type	Promissory Note
	Monitoring and Maintenance Fund Account	$32,255.72
	Unforeseen Events Fund Deposit	$6,451.14
	Decommissioning and Reclamation Plan	
	Mine/mill historical maps/plans	on file with Mines Branch MER
	Saskatchewan Mineral Deposit Index	0619
	Mineral Assessment files	73P07-172 to 341 (28 files)
ADDITIONAL	Comments	see also SMDI records 0619a and 0619b

IC REGISTRY	**ICR #**	**ICR - 02**
	Date of Acceptance	October 22, 2009
SITE DATA	Name	Beaverlodge - K260 Zone, EMAR 16 Claim
	Site Holder/Operator	Cameco Corporation (licensee)
	Original Operator	Canada Eldor Inc. (formerly Eldorado Nuclear Ltd.)
SITE LOCATION	Region	Uranium City
	NTS	74-N-09
	UTM-North	6609552
	UTM-East	307798
	UTM Zone	12
	NAD	1983
SITE DESCRIPTION	Commodity/Mineral	Uranium
	Operational History	Beaverlodge:1952-1982 (K260 mined in 1978 &1979)
	Operation Description	K260 Zone (EMAR 16) open pit mining activity. Ore was mined in 1978 & 1979 and hauled to the mill.
	Release Description	Decommissioned and reclaimed: Open pit backfilled with waste rock and covered with local till.
SITE PERMITS	Release from Decommissioning and Reclamation	IR-16
	Operating Permit at time of Release	N/A
	Mineral Disposition	N/A
	Mineral Release/Crown Mineral Reserve	CR - 866
	Surface Lease Agreement	Surrendered by amendment
	Surface Lease Agreement at time of Release	'Beaverlodge Surface Lease Agreement Regulations, 2006'. Surface Lease Property #'s: 200076 (K260)
	CNSC Exemption (if applicable)	K260 Zone: MSL 256 - Exempted March 14, 2009
	CNSC License at time of exemption (if applicable)	WFOL-W5-2120.01/2007

SITE CONTROLS	Land Use Restrictions	MUP #603100 - no development without application/approval - casual access permitted
	Monitoring/Inspection Results	Results due in 2014
	Date of last monitoring	2008
	Date of last maintenance	2008
SITE RECORDS	Site holder application	September 2008
	Monitoring and Maintenance Plan	2014 & 2019 visual inspection. After 2034, site to be inspected every 10 years.
	Financial Assurance Plan/Type	Letter of Assurance
	Monitoring and Maintenance Fund Account	$137,895.78
	Unforeseen Events Fund Deposit	$21,471.36
	Decommissioning and Reclamation Plan	Outlined in 'Final Closure Report - Beaverlodge Mines - K260, 11 Zone, 46 Zone & Eagle Area
	Mine/mill historical maps/plans	On file with Mines Branch - MER
	Saskatchewan Mineral Deposit Index	1323
	Mineral Assessment files	74N09-0176
ADDITIONAL	Comments	MMF & UEF deposit amounts account for all 5 decommissioned Beaverlodge sites (ICR - 02 through ICR - 06).

IC REGISTRY	**ICR #**	**ICR - 03**
	Date of Acceptance	October 22, 2009
SITE DATA	Name	Beaverlodge - 11 Zone, EMAR 19 Claim
	Site Holder/Operator	Cameco Corporation (licensee)
	Original Operator	Canada Eldor Inc. (formerly Eldorado Nuclear Ltd.)
SITE LOCATION	Region	Uranium City
	NTS	74-N-09
	UTM-North	6609026
	UTM-East	307671
	UTM Zone	12
	NAD	1983
SITE DESCRIPTION	Commodity/Mineral	Uranium
	Operational History	Beaverlodge:1952-1982 (11 Zone mined in 1975-6 &1981)
	Operation Description	11 Zone (EMAR 19) open pit mining activity. Ore was also mined from small slash pit. This zone was mined in 1975-6 & 1981 and hauled to the mill.
	Release Description	Decommissioned & reclaimed: Open pit backfilled with waste rock.
SITE PERMITS	Release from Decommissioning and Reclamation	IR-16
	Operating Permit at time of Release	N/A
	Mineral Disposition	N/A
	Mineral Release/Crown Mineral Reserve	CR - 868
	Surface Lease Agreement	Surrendered by amendment
	Surface Lease Agreement at time of Release	'Beaverlodge Surface Lease Agreement Regulations, 2006'. Surface Lease Property #'s: 200077 (11 Zone)
	CNSC Exemption (if applicable)	11 Zone: MSL 257 - Exempted March 14, 2009
	CNSC License at time of exemption (if applicable)	WFOL-W5-2120.01/2007

SITE CONTROLS	Land Use Restrictions	MUP #603100 - no development without application/approval - casual access permitted
	Monitoring/Inspection Results	Results due in 2014
	Date of last monitoring	2008
	Date of last maintenance	2008
SITE RECORDS	Site holder application	September 2008
	Monitoring and Maintenance Plan	2014 & 2019 visual inspection and water samples. After 2034, site to be inspected every 10 years.
	Financial Assurance Plan/Type	Letter of Assurance
	Monitoring and Maintenance Fund Account	$137,895.78
	Unforeseen Events Fund Deposit	$21,471.36
	Decommissioning and Reclamation Plan	Outlined in 'Final Closure Report - Beaverlodge Mines - K260, 11 Zone, 46 Zone & Eagle Area'
	Mine/mill historical maps/plans	On file with Mines Branch - MER
	Saskatchewan Mineral Deposit Index	1323
	Mineral Assessment files	74N09-0176
ADDITIONAL	Comments	MMF & UEF deposit amounts account for all 5 decommissioned Beaverlodge sites (ICR - 02 through ICR - 06).

IC REGISTRY	**ICR #**	**ICR - 04**
	Date of Acceptance	October 22, 2009
SITE DATA	Name	Beaverlodge - 46 Zone, EMAR 21 Claim
	Site Holder/Operator	Cameco Corporation (licensee)
	Original Operator	Canada Eldor Inc. (formerly Eldorado Nuclear Ltd.)
SITE LOCATION	Region	Uranium City
	NTS	74-N-09
	UTM-North	6609079
	UTM-East	307118
	UTM Zone	12
	NAD	1983
SITE DESCRIPTION	Commodity/Mineral	Uranium
	Operational History	Beaverlodge:1952-1982 (46 Zone mined in 1980 &1981)
	Operation Description	46 Zone (EMAR 21) open pit mining activity and underground adit. This zone was mined in 1980 & 1981 and hauled to the mill.
	Release Description	Decommissioned & reclaimed: Adit backfilled with waste rock plug. Open pit partially backfilled with waste rock.
SITE PERMITS	Release from Decommissioning and Reclamation	IR-16
	Operating Permit at time of Release	N/A
	Mineral Disposition	N/A
	Mineral Release/Crown Mineral Reserve	CR - 869
	Surface Lease Agreement	Surrendered by amendment
	Surface Lease Agreement at time of Release	'Beaverlodge Surface Lease Agreement Regulations, 2006'. Surface Lease Property #'s: - N/A
	CNSC Exemption (if applicable)	46 Zone: MSL 5121 - Exempted March 14, 2009
	CNSC License at time of exemption (if applicable)	WFOL-W5-2120.01/2007

SITE CONTROLS	Land Use Restrictions	MUP #603100 - no development without application/approval - casual access permitted
	Monitoring/Inspection Results	Results due in 2014
	Date of last monitoring	2008
	Date of last maintenance	2008
SITE RECORDS	Site holder application	September 2008
	Monitoring and Maintenance Plan	2014 & 2019 visual inspection. After 2034, site to be inspected every 10 years.
	Financial Assurance Plan/Type	Letter of Assurance
	Monitoring and Maintenance Fund Account	$137,895.78
	Unforeseen Events Fund Deposit	$21,471.36
	Decommissioning and Reclamation Plan	Outlined in 'Final Closure Report - Beaverlodge Mines - K260, 11 Zone, 46 Zone & Eagle Area'
	Mine/mill historical maps/plans	On file with Mines Branch - MER
	Saskatchewan Mineral Deposit Index	1323
	Mineral Assessment files	74N09-0176
ADDITIONAL	Comments	MMF & UEF deposit amounts account for all 5 decommissioned Beaverlodge sites (ICR - 02 through ICR - 06).

IC REGISTRY	**ICR #**	**ICR - 05**
	Date of Acceptance	October 22, 2009
SITE DATA	Name	Beaverlodge - 32 & 42 Zone & EAGLE shaft, EAGLE 4 & 7 Claims
	Site Holder/Operator	Cameco Corporation (licensee)
	Original Operator	Canada Eldor Inc. (formerly Eldorado Nuclear Ltd.)
SITE LOCATION	Region	Uranium City
	NTS	74-N-10
	UTM-North	6610223
	UTM-East	301083
	UTM Zone	12
	NAD	1983
SITE DESCRIPTION	Commodity/Mineral	Uranium
	Operational History	Beaverlodge:1952-1982 (32 &42 Zone mined in 1974 &1975, Underground.
	Operation Description	The EAGLE 7 Claim originally hosted the 42 Zone open pit and the EAGLE Underground mine - originally developed in 1954. 42 Zone & 32 Zone, (EAGLE 4 Claim) consisting of shallow pits, were mined during 1974 & 1975.
	Release Description	Decommissioned & reclaimed: 42 & 32 Zones partially backfilled with waste rock. Concrete cap placed over EAGLE Underground shaft.
SITE PERMITS	Release from Decommissioning and Reclamation	IR-16
	Operating Permit at time of Release	N/A
	Mineral Disposition	N/A
	Mineral Release/Crown Mineral Reserve	CR - 870
	Surface Lease Agreement	Surrendered by amendment
	Surface Lease Agreement at time of Release	'Beaverlodge Surface Lease Agreement Regulations, 2006'. Surface Lease Property #'s: 200008 (EAGLE shaft, 42 & 32 Zones)

SITE PERMITS (continued)

	CNSC Exemption (if applicable)	EAGLE shaft, 42 & 32 Zones: MSL 8 - Exempted March 14, 2009
	CNSC License at time of exemption (if applicable)	WFOL-W5-2120.01/2007
SITE CONTROLS	Land Use Restrictions	MUP #603100 - no development without application/approval - casual access permitted
	Monitoring/Inspection Results	Results due in 2014
	Date of last monitoring	2008
	Date of last maintenance	2008
SITE RECORDS	Site holder application	September 2008
	Monitoring and Maintenance Plan	2014 & 2019 visual inspection. After 2034, site to be inspected every 10 years. Cap replacement in 2079.
	Financial Assurance Plan/Type	Letter of Assurance
	Monitoring and Maintenance Fund Account	$137,895.78
	Unforeseen Events Fund Deposit	$21,471.36
	Decommissioning and Reclamation Plan	Outlined in 'Final Closure Report - Beaverlodge Mines - K260, 11 Zone, 46 Zone & Eagle Area'
	Mine/mill historical maps/plans	On file with Mines Branch - MER
	Saskatchewan Mineral Deposit Index	1360 (EAGLE shaft & 42 Zone), 1371 (32 Zone)
	Mineral Assessment files	74N10-0134
ADDITIONAL	Comments	MMF & UEF deposit amounts account for all 5 decommissioned Beaverlodge sites (ICR - 02 through ICR - 06).

IC REGISTRY	**ICR #**	**ICR - 06**
	Date of Acceptance	October 22, 2009
SITE DATA	Name	Beaverlodge - 02 Zone, EAGLE claim
	Site Holder/Operator	Cameco Corporation (licensee)
	Original Operator	Canada Eldor Inc. (formerly Eldorado Nuclear Ltd.)
SITE LOCATION	Region	Uranium City
	NTS	74-N-10
	UTM-North	6609729
	UTM-East	301917
	UTM Zone	12
	NAD	1983
SITE DESCRIPTION	Commodity/Mineral	Uranium
	Operational History	Beaverlodge:1952-1982 (02 Zone mined in 1979)
	Operation Description	02 Zone (EAGLE Claim) was mined in1979 and resulted in small horseshoe shaped open pit.
	Release Description	Decommissioned & reclaimed: 02 Zone partially backfilled with waste rock.
SITE PERMITS	Release from Decommissioning and Reclamation	IR-16
	Operating Permit at time of Release	N/A
	Mineral Disposition	formerly ML5145
	Mineral Release/Crown Mineral Reserve	CR - 867
	Surface Lease Agreement	Surrendered by amendment
	Surface Lease Agreement at time of Release	'Beaverlodge Surface Lease Agreement Regulations, 2006'. Surface Lease Property #'s: 200075 (02 Zone)
	CNSC Exemption (if applicable)	02 Zone: MSL 255 - Exempted March 14, 2009
	CNSC License at time of exemption (if applicable)	WFOL-W5-2120.01/2007

SITE CONTROLS	Land Use Restrictions	MUP #603100 - no development without application/approval - casual access permitted
	Monitoring/Inspection Results	Results due in 2014
	Date of last monitoring	2008
	Date of last maintenance	2008
SITE RECORDS	Site holder application	September 2008
	Monitoring and Maintenance Plan	2014 & 2019 visual inspection. After 2034, site to be inspected every 10 years.
	Financial Assurance Plan/Type	Letter of Assurance
	Monitoring and Maintenance Fund Account	$137,895.78
	Unforeseen Events Fund Deposit	$21,471.36
	Decommissioning and Reclamation Plan	Outlined in 'Final Closure Report - Beaverlodge Mines - K260, 11 Zone, 46 Zone & Eagle Area'
	Mine/mill historical maps/plans	On file with Mines Branch - MER
	Saskatchewan Mineral Deposit Index	1368
	Mineral Assessment files	74N10-0048; 0134; 0219
ADDITIONAL	Comments	MMF & UEF deposit amounts account for all 5 decommissioned Beaverlodge sites (ICR - 02 through ICR - 06).

Glossary of Acronyms

CNSC: Canadian Nuclear Safety Commission
CR: Crown Reserve, a mineral reserve reference
EMAR: a site name reference, not specifically defined
ICR: Institutional Control Registry
IR: Alpha code reference for Release from Decommissioning and Reclamation
MER: Ministry of Energy and Resources
ML: Mineral Lease, a mineral disposition reference
MMF: Monitoring and Maintenance Fund
MSL: Alpha code reference for CNSC mine site licence
MUP: Miscellaneous Use Permit issued by the Ministry of Environment for land use
NAD: North American Datum, a geodetic system reference for site location
NTS: National Topographic System, a Canadian topographic map reference.
SMDI: Saskatchewan Mineral Deposit Index
UEF: Unforeseen Events Fund
UTM: Universal Transverse Mercator, a geographic system reference for site location
WFOL: Waste Facility Operating Licence, a CNSC licence reference